

ABSTRACT

The invention relates to a vibratory apparatus for piling and extracting piles, provided with bearings for rotating unbalanced masses (11, 12), said unbalanced masses being arranged in a bearing flange (1) by means of a bearing journal (10) and a bearing bush, or with bearings for shafts, on which the unbalanced masses are mounted. According to said invention, the bearings are fluid-lubricated plain bearings; each bearing bush comprises at least two radially-extending channels (bearing bush channels); each bearing bush is provided with radially-extending groove-shaped recesses on at least one face thereof or such slots are formed in the axial bush-adjacent stop faces of the unbalanced masses or shafts which are arranged in the plain bearings and the journal or shaft surface, surrounded by the bearing bush, comprises one or several groove-shaped recesses.